

SOV/20-121-4-50/54

AUTHORS: Krasil'nikov, A. A., Corresponding Member, Academy of Sciences, USSR, Chaylakhyan, M. Kh., Skryabin, G. K., Khokhleva, Yu. M., Ulezlo, I. V., Konstantinova, T. N.

TITLE: On the Stimulating Effect of Gibberellines of Different Origin  
(O stimiliruyushchem deystvii gibberellinov razlichnogo proiskhozhdeniya)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol. 121, Nr 4, pp. 755-758 (USSR)

ABSTRACT: In recent years the gibberellines - new physiologically active substances - have drawn the attention of large circles of botanists and plant growers. They have a great influence on growth and development of plants as well as upon their different physiological manifestations and formation processes (Refs 5, 14). Gibberellines are obtained from the secretions of the fungus Fusarium moniliforme (sexual stage is Gibberella Fujikuroi on rice). At the moment these substances are produced by special institutes in the USA (S. Sh. A.), England (Angliya) and Japan (Yaponiya). Among the substances produced by them the authors investigated most carefully a preparation obtained

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## On the Stimulating Effect of Gibberellines of Different Origin

from the fungus Fusarium sp. which was isolated from a befallen vine. The fungus grows well on different culture media both in the case of simple synthetic and composed organic media. Its character and formation are briefly described. It differs from the race which is typical for Fusarium moniliforme. Differences are shown on figure 1. Fusarium sp. produced the active substance on the two following media: 1)  $\text{MgCO}_3$  0,3 g,  $\text{NaCl}$  0,2,  $\text{KNO}_3$  1,0 g,  $\text{FeSO}_4$  0,001 g, saccharosis 20 g, tap-water 1 liter. 2) (According to Stodola)  $\text{NH}_4\text{Cl}$  3,0 g,  $\text{KH}_2\text{PO}_4$  3,0 g,  $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$  3,0 g, saccharosis (or glucose) 30 g, tap-water 1 liter. The isolation and purification of the active substance was carried out according to Stodola and others (Ref 13). The preparations Nr 1 and 2 were isolated. Nr 1 was more effective in the case of peas, cucumbers, maize, vetches and others than Nr 2 with respect to acceleration of growth and mass increase. The root system is not activated by any other preparation. The results of the main tests show (Figs 1, 2, Table 1) that the above mentioned preparation Nr 1 does not differ from

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On the Stimulating Effect of Gibberellines of Different Origin

gibberelline A<sub>3</sub> (by Professor Lang, Los Angeles) with respect to its effect. It was also impossible to find chromatographical differences. Only the chemical identification will prove whether the preparations Nr 1 and 2 are really gibberellines. There are 3 figures, 1 table, and 15 references, 5 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow, State University imeni M. V. Lomonosov)  
Institut fiziologii rasteniy im. K. A. Timiryazeva Akademii nauk SSSR (Institute of Plant Physiology imeni A. K. Timiryazev, AS USSR) Institut mikrobiologii Akademii nauk SSSR (Institute of Microbiology, AS USSR)

SUBMITTED: May 13, 1958

Card 3/4

BLINOV, N.O.; YAKUBOV, G.Z.; ARTAMONOVA, G.I.; KHOKHLOVA, Yu.M.

Isolation of antibiotics of the mycetin-violarin group by  
paper chromatography. Antibiotiki 7 no.12:1063-1069. D '62.  
(MIRA 16:5)

1. Institut khimii prirodnykh soyedineniy i Institut mikrobiologii AN SSSR.  
(ANTIBIOTICS) (PAPER CHROMATOGRAPHY)

YAKUBOV, G.Z.; KHOKHLOVA, Yu.M.; BLINOV, N.O.

Studying the conditions for partitioning the antibiotics of the  
mycetin-violarine group by paper chromatography. *Mikrobiologiya*  
31 no.3:526-533 My-Je '62. (MIRA 15:12)

1. Institut mikrobiologii i Institut khimii prirodnykh soyedineniy  
AN SSSR.

(PAPER CHROMATOGRAPHY) (ANTIBIOTICS)

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Orange-colored with orange-red tints; in some specimens, Mikro-  
biale, bl. 31 no. 1-2-3-4-5-6-7-8-9-10. (MIRA 18:3)

1. Orange-red tints; in some specimens, Mikro-  
biale, bl. 31 no. 1-2-3-4-5-6-7-8-9-10.

KRASIL'NIKOV, N.A.; YAKUBOV, G.Z.; KHOKHLOVA, Yu.M.; ARTAMONOVA, O.I.;  
ULEZLO, I.V.

Study of antibiotics produced by actinomycetes of the violet  
group. Mikrobiologiya 32 no.5:748-754 S-0'63 (MIRA 17:2)

1. Institut mikrobiologii AN SSSR.

SHAPOSHNIKOV, V.N., akademik; BEKHTEREVA, M.N.; YAKUBOV, G.Z.;  
KHOKHLOVA, Yu.M.

Effect of cultivation conditions on the correlation of  
components of an antibiotic produced by *Actinomyces violaceus*,  
strain no. 719. Dokl. AN SSSR 153 no.5:1195-1198 D '63.  
(MIRA 17:1)

1. Institut mikrobiologii AN SSSR.

KHOKHLOVA, Yu.M.; PUCHNINA, A.V.; BLINOV, N.O.

Paper chromatography method in the study of heptane anti-  
biotics No.s 2339 and 2789. Antibiotiki 8 no.5:417-422

My'63

(MIRA 17:3)

1. Institut mikrobiologii AN SSSR i Institut khimii prirodnykh  
soyedineniy AN SSSR.

BLINOV, N. O.; OPARYSHEVA, Ye. F.; KHOKHLOVA, Yu. M.; YAKUBOV, G. Z.; PUCHNINA, A. V.;  
FEDKINA, N. G.; KHRYASHCHEVA, K. M.; KHOKHLOV, A. S.

"Classification of antibiotics according to 'chromatographic spectra'."

report submitted for Antibiotics Cong, Prague, 15-19-Jun 64.

Inst for Chemistry of Natural Compounds, Inst of Microbiology, AS USSR, '11-  
Union Res Inst for Antibiotics, Moscow.

GOLDOVKINA, L.M.; TAPTYKOVA, S.D.; KHOKHLOVA, Yu.M.; ANCHAYEV, S.G.

Comparison of antibiotics produced by Actinomyces of the  
Fradiæ group. Mikrobiologiya 33 no.2:332-336 Nov '64.  
(MIRA 17:12)

1. Institut mikrobiologii AN SSSR.

KHOKHLOVA, Yu.M.; PUCHNINA, A.V.; ARTAMONOVA, O.I.

Chemical study of the main component of vitamycin. *Biokhimiia*  
29 no.5:841-845 J1-Ag '64. (MIRA 18:11)

1. Institut mikrobiologii AN SSSR, Moskva.

KOSMACHEV, A.Ye. [deceased]; KHOKHLOVA, Yu.M.; KALMYKOVA, G.Ya.;  
PROSNYAKOVA, I.M.; SERGEYEVA, L.N.

Production and isolation of an antibiotic from the thermophilic  
Actinomyces T-12/3. Mikrobiologiya 34 no.3:437-441 My-Je '65.  
(MIRA 18:11)

1. Institut mikrobiologii AN SSSR.

SHAFCHNIKOV, V.M., akademik; BYKHTEVA, N.N.; FOMIN, N.V.; VISHKOROVA,  
N.M.; KHOKHLOVA, Yu.M.

Organic acids and their role in the formation of prodigiosin-like  
pigments in *Actinomyces longissimi* racens and *Actinomyces*  
*aureoverticillatus*. Dokl. AN SSSR 176 no.1:219-222 Jan '66.

(MIRA 19:1)

1. Institut mikrobiologii AN SSSR. Submitted September 15, 1965.

SHISHKINA, N., kand. tekhn. nauk; ZBANDUTO, L.; KHOKHLOVA, Z.;  
IL'YASHENKO, M., kand. veterin. nauk

Effect of the type of the polymeric film and packaging methods  
on the meat products. Mias. ind. SSSR 35 no. 1:10-13 '64.

(MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy  
promyshlennosti.

ХОКХЛОВА, З.С.

120-4-8/35

AUTHORS: Zhdanov, A.P., Berkovich, I.B., Lepekhin, F.G.,  
Skirda, N.V. and Khokhlova, Z.S.

TITLE: Measurement of Small Angles in Nuclear Photoemulsions  
(Izmereniye mal'kh uglov v yadernykh fotoemul'siyakh)

PERIODICAL: Pribory i Tekhnika Eksperimenta, 1957, No.4,  
p.32 (USSR).

ABSTRACT: The problem of accurate measurement of angles between the primary and secondary tracks is associated with nuclear interactions of high-energy particles with nucleons and nuclei in nuclear photoemulsions. These angles are of importance in the comparison of experimental data with theoretical predictions and in the study of multiple production of particles. The coordinate method allows such a measurement to be carried out with sufficient accuracy in different cases. In general, when the beginning of the shower is outside the emulsion, the angular distribution can only be given relative to the axis of the shower which is taken to be coincident with the direction of motion of the primary particle. The angle  $\theta$  between the  $i$ -th particle and the axis of the shower is in this case determined by the formula:

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Measurement of Small Angles in Nuclear Photoemulsions.

$$\text{ctg } \theta_i = \frac{\bar{l}^2 + l_i^2 - (R_i - r_i)^2}{\sqrt{4l_i^2 l_i^2 - [\bar{l}^2 + l_i^2 - (R_i - r_i)^2]^2}},$$

where:

$$\bar{l}^2 = x^2 + (\bar{y}'' - \bar{y}')^2 + (\bar{z}'' - \bar{z}' + z_0)^2,$$

$$l_i^2 = x^2 + (y_i'' - y_i')^2 + (z_i'' - z_i' + z_0)^2,$$

$$R_i = \sqrt{(y_i'' - \bar{y}'')^2 + (z_i'' - \bar{z}'')^2},$$

$$r_i = \sqrt{(y_i' - \bar{y}')^2 + (z_i' - \bar{z}')^2},$$

$$\bar{y}' = \sum y_i' / n; \quad \bar{y}'' = \sum y_i'' / n;$$

$$\bar{z}' = \sum z_i' / n; \quad \bar{z}'' = \sum z_i'' / n \tag{1}$$

Card2/4 In the special case where the beginning of the shower lies in

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Measurement of Small Angles in Nuclear Photoemulsions.

the emulsion, formula (1) has the following form:

$$\text{ctg } \theta_i = \frac{x^2 + \bar{y}y_i + (\bar{z} + z_0)(z_i + z_0)}{\sqrt{x^2[(y_i - \bar{y})^2 + (z_i - \bar{z})^2] + [\bar{y}(z_i + z_0) - y_i(\bar{z} + z_0)]^2}} \quad (2)$$

However, if the beginning of the shower does not lie in that layer of the emulsion in which  $y_i$  and  $z_i$  are measured, then it is necessary to take into account the difference in depth between the layers in measuring  $x$  and  $z_0$ . If the primary track is recorded, then Eq.(2) takes on a simpler form, since in that case,  $\bar{y} = \bar{z} = 0$ . The above method of calculation of the angle  $\theta_i$  from the measured co-ordinates in the plane of the section perpendicular to the plane of the emulsion gives results with an accuracy not greater than 10%. For angles less than  $1^\circ$  the magnitude of the error is greater

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Measurement of Small Angles in Nuclear Photoemulsions.

than 10%. If the disintegration is caused by a neutral particle, then the accuracy of the results depends on the angle of inclination of the jet to the plane of the emulsion and decreases as this angle increases. The described method may be of interest in the experimental investigation of multiple production of particles. Fig.1 legend: Calculation of  $\theta_i$ . The track  $OO'$  lies in the plane  $XOZ$ . It can be any track lying near the middle of the shower. The plane  $XOY$  is parallel to the surface of emulsion. Measurements of the co-ordinates  $y_i', y_i'', z_i', z_i''$  are carried out in planes perpendicular to the axis  $OX$  relative to the track  $OO'$ ;  $x$  - length of the projection of  $OO'$ ,  $z_0$  - height of one end of  $OO'$  above the other. The axis of the shower need not coincide with any of the tracks of the shower. There is 1 figure.

ASSOCIATION: Khlopin Radiation Institute of the Ac.Sc. USSR.  
(Radiyevyy institut im. V.G. Khlopina AN SSSR)  
SUBMITTED: February 13, 1957.  
AVAILABLE: Library of Congress

Card 4/4

KHOKHLOVA, Z. S.

21(7)

SOV/56-37-3-3/62

AUTHORS: Berkovich, I. B., Zhdanov, A. P., Lepekhin, F. G., Khokhlova, Z. S.

TITLE: Mesonless Decays of Hyperfragments

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, Vol 37, Nr 3(9), pp 604 - 610 (USSR)

ABSTRACT: It was the aim of the investigations, which form the subject of this report, to identify some hyperfragments, which had been found in part of a G-5 emulsion pile irradiated by 4.5 Bev pions. In a systematically investigated emulsion surface of 47 cm<sup>2</sup> eight double stars were found, in which the connecting track narrowed down, one of the secondary tracks having a range > 5000 μ. These stars are ascribed to mesonless decays of hyperfragments. Micro-projections of the individual stars are shown by figures 1-8, and some particular features are discussed. A table shows the data determined from all these stars. The following is shown: Figure 1: (case Nr 264), primary star 18 + 3π, presumed reaction:

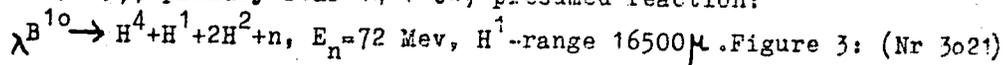
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$${}_{\lambda_c}^8\text{Li} \rightarrow \text{H}^1 + \text{H}^3 + \text{H}^3 + \text{n}, E_n = 90 \text{ Mev}, \text{H}^1\text{-range } 9900 \mu. \text{Figure 2: (case$$

## Mesonless Decays of Hyperfragments

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Nr 3013), primary star 14 + 0 $\pi$ , presumed reaction:

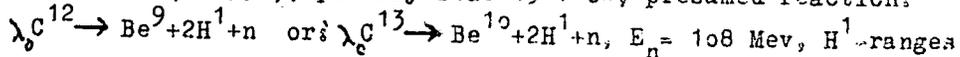


primary star 12 + 2 $\pi$ , presumed reaction:  $\lambda C^{12} \rightarrow 2He^4 + H^1 + H^2 + n,$

$E_n = 42 \text{ Mev}, H^1\text{-range } < 25000\mu. \text{ Figure 4: (Nr 312), primary star:}$

11 + 3 $\pi$ , presumed reaction:  $\lambda He^5 \rightarrow H^2 + H^2 + n, E_n = 99 \text{ Mev}, H^2\text{-range } 5900\mu.$

Figure 5: (Nr 338), primary star 13 + 0 $\pi$ , presumed reactions:



821 and 609 $\mu. \text{ Figure 6: (Nr 284): primary star 7 + 0}\pi, \text{ presumed}$

reaction:  $\lambda Be^9 \rightarrow H^1 + H^2 + He^4 + 2n$  or:  $\lambda Be^{10} \rightarrow H^1 + H^2 + He^5 + 2n, H^1\text{-range}$

3746 $\mu$  and  $H^2\text{-range } 2983\mu; E_n = 72 \text{ Mev. Figure 7: (Nr 2711): primary}$

star 15 + 0 $\pi$ , presumed reaction:  $\lambda He^5 \rightarrow H^1 + H^3 + n, E_n = 89 \text{ Mev}, H^1\text{-}$

range  $< 15000\mu. \text{ Figure 8: (Nr 275): primary star 17 + 0}\pi, \text{ pre-}$

sumed reaction:  $\lambda Li^6 \rightarrow H^1 + He^4 + n, E_n = 77 \text{ Mev}, H^1\text{-range } > 23000\mu.$

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Mesonless Decays of Hyperfragments

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The ranges of the hypernuclei (in the same order): 87, 16, 94.5, 50, 55, 28.5, 77.7 and 181  $\mu$ . T. I. Ukolova and S. N. Meleshchenko took part in these experiments. There are 8 figures, 1 table, and 3 references.

ASSOCIATION: Radiyevyy institut Akademii nauk SSSR (Radium Institute of the Academy of Sciences, USSR)

SUBMITTED: March 12, 1959 (initially) and June 2, 1959 (after revision)

Card 3/3

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B006/B011

AUTHORS: Berkovich, I. B., Zhdanov, A. P., Lepekhin, F. G.,  
Khokhlova, Z. S.

TITLE: Meson-free Decays of Hyperfragments

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,  
Vol. 38, No. 2, pp. 423-425

TEXT: Several authors had already been concerned with the experimental investigation of meson-free hyperfragment decay, and above all, with the ratio of the number of hyperfragment decays released by  $(\Lambda^0, n)$  interaction to the number of those released by  $(\Lambda^0, p)$  interaction:  $R = N/P$ . The authors offer a contribution to these problems and publish the numerical results of an investigation of a G-5 emulsion pile irradiated with 4.5-Bev pions. In the analysis of all two-pronged stars found in 47 cm<sup>3</sup> of emulsion, the authors selected 18 cases satisfying the following criteria: 1) length of the linking F-track > 20 $\mu$ ; 2) the linking F-track becomes thinner toward the end of the range. Hyperfragments were divided into two classes. One covers the decays in which a single-charged particle

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Meson-free Decays of Hyperfragments

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B006/B

occurs with a range  $> 3$  mm, and the other all the decays in which the secondary particles were slow. The ratio of the decay number of the second type N to the first type P was  $10/8 = 1.25$ . A comparison of results with those from Ref. 1 shows that in all probability the interaction between  $\Lambda^0$  particles and nucleons does not take place via the virtual  $\Sigma$ -state. Investigations were also extended to the angular distribution of hyperfragments with respect to the primary pion flux. The forward/backward ratio was equal to 2.6, whereas  $2.2 \pm 0.5$  had been found in Ref. 2. The forward/backward ratio for lithium fragments was also determined. For Li fragment energies comparable with hyperfragment energies it was equal to unity. A table contains all measured data concerning the kinematic characteristics of the particles. There are 1 table and 3 non-Soviet references.

ASSOCIATION: Radiyevyy institut Akademii nauk SSSR (Radium Institute  
of the Academy of Sciences, USSR) LH

SUBMITTED: August 28, 1959

Card 2/2

BERKOVICH, I.B.; ZHDANOV, A.P.; LEPEKHIN, F.G.; KHOKHLOVA, Z.S.

Nonmeson decays of hyperfragments. Zhur. eksp. i teor. fiz. 38 no.2:  
423-425 F '60. (MIRA 14:5)

1. Radiyevyy institut Akademii nauk SSSR.  
(Mesons) (Hyperfragments—Decay)

BERKOVICH, I.B.; ZHDANOV, A.P.; LEPEKHIN, F.G.; KHOKHLOVA, Z.S.

Cross section of the production of hypernuclei in photoemulsions  
by 9 bev. protons. Zhur.eksp.i teor.fiz. 41 no.1:75-77 J1 '61.  
(MIRA 14:7)

1. Radiyevyy institut AN SSSR.  
(Photography, Particle track) (Nuclei, Atomic) (Protons)

L 17599-63 EWT(1)/FCC(w)/BDS/T-2/ S/056/63/044/003/002/053  
 EED(b)-3/ES(v) AFFTC/ASD/ESD-3/APGC/IJP(C) Pe-4 GW

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AUTHOR: Berkovich, I. B., Zhdanov, A. P., Lepelkin, F. G., and  
Khokhlova, Z. S.

TITLE: Analysis of stars containing hyperfragments produced by 9 Bev  
 protons in photographic emulsions

PERIODICAL: Zhurnal eksperimental'noy i tekhnicheskoy fiziki, v. 44, no. 3,  
 1963, 793-797

TEXT: Using HWK4-P (NIKFI-R) photoemulsions the authors studied the angular and energy distribution of fast, singly-charged particles which they found earlier (ZhETF, 41, 75, 1961) in 20 stars containing hyperfragments generated by 9 Bev protons. Perpendicular pulse components of K mesons and protons are  $430 \pm 140$  Mev/c and of  $\pi$  mesons —  $250 \pm 150$  Mev/c. The angular distribution of fast particles is shown on Fig. 2. The authors conclude that the primary interaction produces  $\Lambda^0$  particles and K-mesons according to  $N + N \rightarrow N + \Lambda^0 + K$ . Other  $\Lambda^0$  production channels are not present.  $\Lambda^0$  particle moves backwards in the center of mass system while the K-meson and the nucleon in its final state probably form an (NK) system

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Analysis of stars containing hyperfragments...

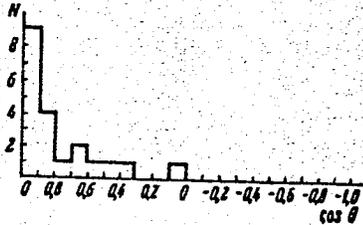


Fig. 2. Angular distribution of fast particles in stars containing hyperfragments produced by 9 Bev protons in the center of mass of two nucleons

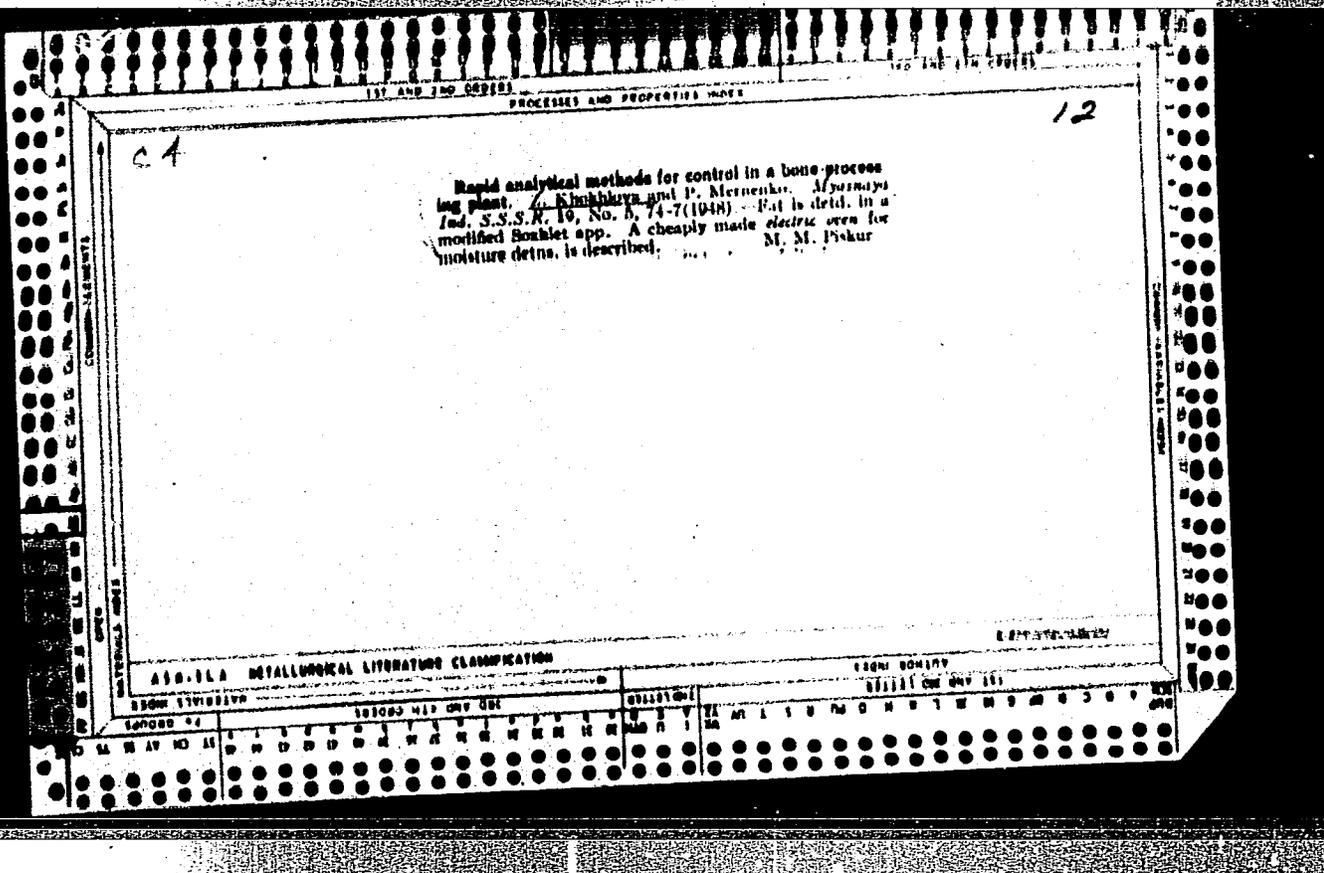
which later desintegrates into a nucleon and a K meson. It is probable that the production of stars containing hyperfragments is accompanied by a complete absorption of cascade particles since the number of fast particles is here half of what is found in ordinary stars, and the nucleus acquires a considerable amount of energy. There are 2 figures.

SUBMITTED: July 28, 1962

Card 2/2

SHALOV, I.I.; KOZLOVA, E.I.; SADOVSKAYA, L.Z.; KHOKHLOVA, Z.S.

Studying the properties of artificial fur fabrics. Nauch.-issl.  
trudy VNIITP no. 5:166-179 '64 (MIRA 19:1)



KHOKHLOVA, Z., KOVAL', V.

Glue

Quick drying for glue in cubes. *Mias*, ind. 23, no. 4, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

KHOKHLOVA, Z.; MERNENKO, P.

Improved process for bone-glue extraction. Myasnaya Ind. S.S.S.R. 24,  
No.2, 39-43 '53. (MIRA 6:4)  
(CA 47 no.15:7806 '53)

KHOKHLOVA, Z.

Chemical Abst.  
Vol. 48 No. 9  
May 10, 1954  
Leather and Glue

③  
Improvement in the extraction of bones. Z. Khokhlova,  
L. Elmanova, S. Ivin, P. Mernenko, and V. Kalinina.  
*Myasnaya Ind. S.S.S.R.* 24, No. 5, 30-1(1953).—De-  
greasing of bones for glue or gelatin extn. is improved by a  
treatment with  $C_6H_6$  vapor to dry and partially to ext. them.  
Extn. is completed by a soaking process. M. M. P.

**KHOKHLOVA, Z.V.**

**Studying bone degumming during the production of glue. Trudy VNIIMS  
no.6:112-122 '54. (NERA 10:8)**

(Glue)

KHOKHLOVA, Z.

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USSR.

Obtaining high-viscosity components from glue solutions by means of fractionation. Z. Khokhlova and P. Mer-nenko. *Myslnnaya Ind. S.S.S.R.* 29, No. 6, 30-1 (1954).  
A glue (viscosity 2.00 poises) was dissolved to give a 45-8% soln. and was allowed to gel. This was successively treated with 3 parts of water at 5, 15, and 25°. The treatments dissolved glue fractions of viscosities 1.0009, 1.131, and 1.317 poises, resp., comprising 3.15, 7.57, and 13.5% of the original and the residue, 08.7%, had a viscosity of 3.457 poises.  
M. M. Piskur

*Khokhlova, Z. V.*  
USSR/Chemical Technology - Chemical Products and Their Application. Leather. Fur.  
Gelatin. Tanning Agents. Technical Proteins, I-29

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63795

Author: Khokhlova, Z. V., Mernenko, P. D.

Institution: None

Title: New Method for the Production of Technical Gelatin

Original

Periodical: Tr. Vses. n.-i. in-ta myasn. prom-sti, 1955, No 7, 123-126

Abstract: Investigated was the possibility of preparing gelatin by the steam or autoclave method. This necessitates a maximum hydration of bone collagen and reduction of thermal treatment of bones during the first stage of diffusion. The bones are steeped in cold water for 24 hours, the water being changed every 4-6 hours, are then washed with a strong current of water in revolving drums to free them from admixtures and organic residues. Thereafter the bones are blown with steam and are steamed with saturated steam under a pressure of 2-5 atmospheres for 10-20 minutes. After each steaming and release of the steam the

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KHOKHLOVA, Z. V.

USSR/Chemical Technology - Chemical Products and Their Application. Leather. Fur.  
Gelatin. Tanning Agents. Technical Proteins, I-29

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63794

Author: Khokhlova, Z. V., Mernenko, P. D.

Institution: None

Title: Production of Glue in the Form of Small Bodies

Original

Periodical: Tr. Vses. n.-i. in-ta myasnoy prom-sti, 1955, No 7, 127-135

Abstract: Manufacture of dry glue in the form of blocks is very laborious, slow and requires extensive plant areas. Experiments have shown that improvement of manufacturing process can be effected by a change over to the production of glue in the form of small bulk items, beads, small cubes or bars. To evolve technological schemes for the production of glue in small bulk forms a study has been made of the dynamics of moisture transfer in the material. Small bulk forms of glue withstand a higher temperature of drying which is necessary for a more rapid diffusion of moisture vapor through the crust, as a

Card 1/2

USSR/Chemical Technology - Chemical Products and Their Application. Leather. Fur.  
Gelatin. Tanning Agents. Technical Proteins, I-29

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63794

Abstract: result of which drying is accelerated. Technological schemes have been worked out for the production of glue in the form of small cubes and granules. In so doing gelatinization is carried out in the usual rectangular metal molds and a vertical strip-cutter is provided to effect the comminution. Before drying a preliminary blowing with air is carried out for 2 hours at 10-12° and an air velocity of 1.5 m/sec. In the second zone of drying the temperature reaches 25-30° and in the third 40-50° (55-65° in the case of granules). Plant scale tests of the drying of glue in the form of small cubes and granules have shown that it is possible to speed up the drying process by 2 times and to raise the output capacity of driers at glue manufacturing plants. The new technological schemes make it possible to mechanize the processes of gelatinization and drying.

Card 2/2

*КХОКХЛОВА*

KHOL', Yu.; KHOKHLOVA, Z.

New method for the production of bone glue. *Mias.ind.SSSR 23*  
no.4:33-34 '57. (MIRA 10:?)

(Glue)

**KHOKHLOVA, Z., insh.; MERNENKO, P., insh.**

Soaking bones before degumming. Mias. ind. SSSR 29 no.1:52-53 '58.  
(MIRA 11:3)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy promysh-  
lennosti (for Khokhlova). 2.Zavod "Kleytuk" (for Mernenko).  
(Glue)

KHOKHLOVA, Z.V., starshiy nauchnyy sotrudnik; KROL', Yu.L., inzh.

Production of glue from small bones defatted by the cold water  
process. Trudy VNIIMP no.9:122-126 '59. (MIRA 13:8)  
(Glue) (Bone products)

VIRNIK, David Isaakovich; VLASOV, Aleksandr Pavlovich; TALANTSEV,  
Dmitriy Zinov'yevich; ~~KHOKHLOVA, Zinaida Vasil'yevna;~~  
LIBERMAN, S.G., kand. tekhn. nauk, retsenzent; PAVLOVSKAYA,  
Z.N., inzh.-tekholog, retsenzent; MOROZOVA, I.I., red.;  
ZARSHCHIKOVA, L.N., tekhn. red.

[Technology of glue and gelatine] Tekhnologiya kleia i zhela-  
tina. [By] D.I. Virnik, i dr. Moskva, Pishchepromizdat, 1963.  
479 p. (MIRA 16:8)

(Glue) (Gelatine)

KHOKHLOVA, Z.V., starshiy nauchnyy sotrudnik; SHAKHNAZAROVA, M.Sh., mladshiy  
nauchnyy sotrudnik; VIRNIK, D.I., inzh.; GUROVA, V.I., inzh.;  
SYCHEVA, G.V., inzh.

Determining gelatin yield from various types of raw materials.  
Trudy VNIIMP no.11:170-177 '62.

(MIRA 18:2)

1. Moskovskiy zhelatinyy zavod (for Virnik, Gurova, Sycheva).

SHISHKINA, N.N., kand. tekhn. nauk; ZBANDUTO, L.L., inzh.; KHOKHLOVA,  
Z.V., inzh.; KUKHARKOVA, L.L., starshiy nauchnyy sotrudnik;  
IL'YASHENKO, M.A., kand. veterin.nauk

Investigating the physicochemical and bacteriological changes  
in packaged meat. Trudy VNIIMP no.12:71-82 '62. (MIRA 18:2)

SHISHKINA, N.N., kand. tekhn. nauk; ZBANDUTO, L.L., inzh.;  
KHOKHLOVA, Z.V., inzh.; IL'YASHENKO, M.A., kand. veter. nauk

Studying the physicochemical and bacteriological changes in  
packaged ready-to-cook meat products. Trudy VNIIMP no.16:168-  
182 '64. (MIRA 18:11)

SHISHKINA, N.N., kand. tekhn. nauk; KHOKHLOVA, Z.V.; ZBANDUTO, L.L.

Synthetic sausage casings. Trudy VNIIMP no.16:156-160 '64.  
(MIRA 18:11)

1. Starshiye inzhenery Vsesoyuznogo nauchno-issledovatel'skogo  
instituta myasnoy promyshlennosti (for Khokhlova, Zbanduto).

KOGOY, T.F. (Moskva); IVANOVSKAYA, T.Ye. (Moskva); KHOKHLOVA, Z.Ye.,  
(Moskva); VERULASHVILI, V.I. (Moskva)

Pathological anatomy in experimental toxoplasmosis of pregnant  
animals. Arkh. pat. 27 no.6:61-67 '65. (MIRA 19:1)

1. Kafedra patologicheskoy anatomii (zav. - deystvitel'nyy chlen  
AMN SSSR prof. I.V. Davydovskiy) II Moskovskogo meditsinskogo  
instituta imeni N.I. Pirogova i rodil'nyy dom No. 1 (glavnyy vrach  
V.I. Verulashvili), Kutaisi. Submitted January 8, 1964.

*KHOKHLOVA, Z. YE.*

DAVYOVSKIY, I.V.; DANILOVA, K.M.; GULINA, L.A.; POKROVSKAYA, I., Yr. 4  
PYATNITSKIY, N.N.; TIMZAKOV, Yu.G.; KHOKHLOVA, Z. Ye.; CHESNOKOVA, S.A.

Experimental morphological analysis of tissue systems of the body  
in "decorticated" animals. Arkh. pat. 22 no. 4:18-34 '60.

(MIRA 14:1)

(CEREBRAL CORTEX)

KHOKHLOVA, Z. Ye.

Dissertation: "The Effect of Tissue Transplants on the Organisms of Experimental Animals." Cand Med Sci, Second Moscow Medical Inst imeni I. V. Stalin, Moscow, 14 Jun 54. (Meditsinskiy Rabotnik, Moscow, 4 Jun 54)

SO: SUM 318, 23 Dec. 1954

KHOKHLOVA, Z.Ye. (Moskva)

Case of Schilder's demyelinating encephalitis. Arkh. pat.  
25 no.5:78-81 '63. (MIRA 17:2)

1. Iz kafedry patologicheskoy anatomii (zav. - deystvitel'-  
nyy chlen AMN SSSR prof. I.V. Davydovskiy) II Moskovskogo  
meditsinskogo instituta imeni N.I. Pirogova i patologo-  
anatomicheskogo otdeleniya Detskoy gorodskoy klinicheskoy  
bol'nitsy No.1 (zav. - kand. med. nauk V.M. Afanas'yeva).

KRUPINA, T.N.; KHOKHLOVA, Z.Ye.

Clinical aspects and morphology of acute disseminated  
encephalomyelitis in children. Zhur. nevr. i psikh. 64  
no.7:974-980 '64. (MIRA 17:12)

1. Klinika nervnykh bolezney detskogo vozrasta (nauchnyy rukovo-  
ditel' - prof. D.S. Futer) i kafedra patologicheskoy anatomii  
(zaveduyushchiy - prof. I.V. Davydovskiy) II Moskovskogo  
meditsinskogo instituta im. N.I. Pirogova.

KHOKHLOVKIN, D. E.

IA 6/49T90

USSR/Mining Methods  
Pumps

Jun 48

"Intensive Lowering of the Water Level at the Poplevinsk Coal Field," D. M. Khokhlovkin, S. A. Krivorog, Engineers, 8 3/4 pp

"Ugol'" No 6 (267)

Describes location of deposits with aid of meridional hydrogeological section. Gives plan of pits showing pumping points. Pumps used were artesian 5-stage ATN-14 type; characteristics are reproduced. Operations are described in detail. Gives diagrams and photographs.

6/49T90

KHOKHLOVKIN, D. M.

PA 20/49T85

USER/Mining Methods  
Coal

Dec 48

"Preliminary Results of the Draining of the Poplevino Coal Fields," Ye. P. Kravtsov, D. M. Khokhlovkin, Mintopstroy, S. A. Krivorog, Soyuzshakhtosusheniye, 4 pp

"Ugol'" No 12 (273)

Coal field is located in Skopinsk Rayon, Ryazan Oblast, near the Oktyabr'Ugol Trust and has access to Moscow-Donbass railroad. Describes the enterprise, and past production. Map shows disposition of tunnels and results of water pumping from the shafts.

20/49T85

KHOKHLOVKIN, D. M.

Blubnyye nasosy dlia vodoponizhenia i vodosnabzhenia. Moskva, Ugletekhizdat, 1950. 230 p. illus.

Bibliography: p. (228)

Deep-well pumps for water discharge and supply.

DLC: TN325.K45

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953

KHOKHLOVKIN, D.M., inzhener.

Use of mobile needle filters for drainage installations in pit and shaft  
work. Stroitel'stvo no.5:20-24 My '53. (MLRA 6:6)  
(Filters and filtration)

ИХОКХОВКИН, Д. М.

ИХОКХОВКИН, Д.М.; ЗУМАКОВ, И.М., ответственный редактор; НАДЕИНСКАЯ,  
А.А., технический редактор; АНДРИЙЕВ, Г.Г., технический редактор

[Deep-well pumps for lowering water levels and for water supply]  
Glubinye nasosy dlia vodoponisheniia i vodosnabzheniia. Izd. 2-o,  
perer. Moskva, Ugletekhizdat, 1954. 410 p. (MIRA 8:4)  
(Pumping machinery)

**KHOKHLOVKIN, D.M.**

Draining during vertical shaft sinking. Ugol' 29 no.7:25-28 Ji '54.  
(MLRA 7:7)

1. Giproskhakhtostroy Mash.  
(Mine drainage) (Shaft sinking)

*KHOKHLOVKIN, D.*

KOCHERGIN, G.; CHEREMNYKH, M.; KONONTSEV, I.; MALIOVANOV, D.; MALEVICH, N.;  
RATS, A.; LESIK, M.; KHOKHLOVKIN, D.; FEDOTOV, A.

Remarks on the book "Machines and equipment in mining." Vol. 1. "Mining equipment." F.G.Boiko and others. Reviewed by G.Kochergin, M.Chernomykh, I.Konontsev, D.Maliovanov, N.Malevich, A.Rats, M.Lesik, D.Khokhlovkin, A.Fedotov. Ugol' 29 no.11:46-48 '54. (MLRA 7:11)

1. Glavnyy mekhanik Upravleniya po stroitel'stvu shakht v Donbasse Pini-sterstva ugol'noy promyshlennosti SSSR (for Kochergin). 2. Glavnyy Konstruktor Glavstroymekhanisatsii (for Chernomykh). 3. Nachal'nik otdela novykh mashin GUES (for Konontsev). 4. Direktor instituta Giprosnakhtostroy-mash (for Maliovanov). 5. Glavnyy inzhener Giprosnakhtostroy-masha (for Malevich). 6. Nachal'nik otdelov Giprosnakhtostroy-masha (for Rats, Lesik & Khokhlovkin). 7. Glavnyy konstruktor Giprosnakhtostroy-masha (for Fedotov).

(Coal--Mining machinery) (Boiko, F.G.)

KHOKHLOVKIN, D.M., laureat Stalinskoy premii, inshener.

Shaft sinking by lowering water levels. Gor.shur.no.11:21 N '55.  
(Shaft sinking) (MLRA 9:1)

*KHOKHLOV, D.M.*

BYKOV, Viktor Vasil'yevich; KOVAL', Yefim Ivanovich; ~~KHOKHLOV, D.M.~~,  
otvetstvennyy redaktor; KRASOVSKIY, I.P., redaktor izdatelstva;  
KOROVENKOVA, Z.A., tekhnicheskiy redaktor; ZAZUL'SKAYA, V.F.,  
tekhnicheskiy redaktor

[Automatization of pumping apparatus] Avtomatizatsia nasosnykh  
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(Pumping machinery) (Automatic control)

KHOKHLOVKIN, David Mikhaylovich; KITAYSKIY, S.V., otvetstvennyy redaktor;  
SAVIN, M.M., redaktor izdatel'stva; KOROVENKOVA, Z.A., tekhnicheskiy  
redaktor

[Evacuating water in the sinking of vertical mine shafts] Vodootliv  
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1956. 130 p. (MLR 10:1)

(Pumping machinery) (Shaft sinking)

**KHOKHLOVKIN, D.M., inzhener.**

Artesian wells in agriculture in the United States. Gidr.  
1 mel. 8 no.6:54-58 Je '56.

(MLRA 9:9)

(United States--Artesian wells)

KHOKHLOVKIN, D.M., inshener.

Rock-loading machines used abroad in vertical shaft sinking.

Gor. zhur. no.7:45-50 J1 '56.

(MLRA 9:9)

(Mining machinery) (Shaft sinking)

KHOZHLOVKIN, D.M.

Improved series of pumps of the artesian turbine pump type.

Vod. 1 san. tekhn. no.8:16-19 Ag '56.

(MLRA 9:10)

(Pumping machinery)

KHOKHLOVKIN, D.M., inzhener.

Plunging depth pumps used for mining in foreign countries. Ger. shur.  
no.2:45-49 P '57. (MIRA 10:4)  
(Mine pumps)

*KHOKHLOVKA, D.*  
KHOKHLOVKA, D., insh.

Manual for young miners ("Mining Engineering" by V.A. Glagolev.  
Reviewed by D. Khokhlovkin). Mast. ugl. 6 no.12:20 D '57.  
(MIRA 11:1)  
(Mining engineering--Study and teaching)

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Drainage during vertical shaft sinking in foreign countries.  
Shakht. stroi. no.7:31-32 JI '57. (MIRA 10:8)  
(Shaft sinking) (Mine drainage)

KHOKHLOVKIN, D.M.

Submersible well pumps for water supply. Vod. san. tekhn. no.10:36-41  
0 '57. (MIRA 10:11)

(Pumping machinery)

N HOKHLOVKIN, D. I.

ANDROS, I.P., inzh.; ASSONOV, V.A., kand. tekhn. nauk.; BERNSHTEYN, S.A., inzh.; BOKIY, B.V., prof.; BROVMAN, Ya.V., inzh. BONDARENKO, A.P., inzh.; BUCHNEV, V.K., kand. tekhn. nauk; VERESKUNOV, G.P., kand. tekhn. nauk; VOLKOV, A.F., inzh.; GELMSKUL, M.N., kand. tekhn. nauk; GORODNICHIV, V.M., inzh.; DEMENT'YEV, A.Ya., inzh.; DOKUCHAYEV, M.M., inzh.; DUBNOV, L.V., kand. tekhn. nauk; LEPIFANTSEV, Yu.K., kand. tekhn. nauk.; YERASHKO, I.S., inzh.; ZHEDANOV, S.A., kand. tekhn. nauk; ZIL'BERBROD, A.F., inzh.; ZINCHENKO, E.M., inzh.; ZORI, A.S., inzh.; KAPLAN, L.B., inzh.; KATSAUROV, I.N., dots.; KITAYSKIY, B.V., inzh.; KRAVTSOV, Ye.P., inzh.; KRIVOROG, S.A., inzh.; KRINITSKIY, L.M., kand. tekhn. nauk; LITVIN, A.Z., inzh.; MALEVICH, N.A., kand. tekhn. nauk; MAN'KOVSKIY, G.I., doktor tekhn. nauk; MATKOVSKIY, A.L., inzh.; MINDELI, E.O., kand. tekhn. nauk; NAZAROV, P.P., kand. tekhn. nauk; NASONOV, I.D., kand. tekhn. nauk; NEYENBURG, V.Ye., kand. tekhn. nauk; POKROVSKIY, G.I., prof., doktor tekhn. nauk; PROYAVKIN, E.T., kand. tekhn. nauk; ROZENBAUM, inzh.; ROSSI, B.D., kand. tekhn. nauk; SEMEVSKIY, V.N., doktor tekhn. nauk; SKIRGELLO, O.B., inzh.; SUKHUT, A.A., inzh.; SUKHANOV, A.F., prof., doktor tekhn. nauk; TARANOV, P.Ya., kand. tekhn. nauk; TOKAROVSKIY, D.I., inzh.; TRUPAK, N.G., prof., doktor tekhn. nauk; FEDOROV, S.A., prof., doktor tekhn. nauk; FEDYUKIN, V.A., inzh.; KHOKHLOVKIN, D.M., inzh.; KHRABROV, N.I., kand. tekhn. nauk; CHEKAROV, V.A., inzh.; CHERNAVKIN, N.N., inzh.; SHREYBER, B.P., kand. tekhn. nauk; EPOV, B.A., kand. tekhn. nauk; YAKUSHIN, N.P., kand. tekhn. nauk; YANCHUR, A.M., inzh.; YAKHONTOV, A.D., inzh.; POKROVSKIY, N.M., otvetstvennyy red.; KAPIUN, Ya.G. [deceased], red.; MONIN, G.I., red.; SAVITSKIY, V.T., (Continued on next card)

ANDROS, I.P.---(continued) Card 2.

red.; SANOVICH, P.O., red.; VOLOVICH, M.Z., inzh., red.; GORITSKIY, A.V., inzh., red.; POLUYANOV, V.A., inzh., red.; FADEYEV, M.I., inzh., red.; CHECHKOV, L.V., red. izd-va; PROZOROVSKAYA, V.L., tekhn. red.; NADBINSKAYA, A.A., tekhn. red.

[Mining; an encyclopaedic handbook] Gornoe delo; entsiklopedicheskiy spravochnik, Glav. red. A.M. Terpigorev. Moskva, Gos. nauchno-tekhnicheskoe izd-vo lit-ry po ugol'noi promyshl. Vol.4. [Mining and timbering] Provedenie i kreplenie gornykh vyrabotok. Red. kollegiya: tom: N.M. Pokrovskii... 1958. 464 p. . . (MIRA 11:7) . . .

(Mine timbering) (Mining engineering)

KHOKHLOVKIN, D.M., inzh.

Artesian pumps for deep wells. Shakht. stroi. no.5:30-32, 3 of cover  
'58. (MIRA 11:6)

(Mine pumps)

KHOZHLOVKIN, D.M., inzh.

Depth pumps with sinking electric engines. Shakht. stroi.  
no.8:14-18 Ag '58. (MIRA 11:9)  
(Mine pumps--Electric driving)

**KHOKHLOVKIN, David Mikheylovich; ZHUMAKHOV, I.M., red.; VINOUROVA, Ye.B.,**  
**red.isd-va; LILYUKHIN, A.A., tekhn.red.**

[Deep well pumps with submersible electric motors] Glubinye nasosy  
s pogrushnymi elektrodvigateliami. Moskva, Isd-vo M-va kommun.khoz.  
REPER, 1959. 72 p. (MIRA 13:2)  
(Oil well pumps)

KHOKHLOVKIN, D.M., inzh.

Standard sets of reaming bits for rotary drilling designed by  
the All-Union Office for Mine Drainage. Shakht.strc'. 6  
no.1:30-31 Ja '62. (MIRA 14:12)  
(Rock drills)

KHOKHLOVKIN, D.M., red.; CHERNEGOVA, E.N., red.; IL'INSKAYA, G.M.,  
tekh. red.

[From work practices on deep mine drainage] Iz opyta raboty  
po glubinnomu vodoponizheniu. Moskva, Gosgortekhzdat.  
No.1. [Improving techniques of deep mine drainage] Uovershen-  
stvovanie tekhniki glubinnogo vodoponizhenia. Pod obshchei  
red. D.M.Khokhlovkina. 1962. 47 p. (MIRA 15:7)

1. ~~Vvedeniye~~ soveshchaniye rabotnikov elektromekhanicheskoy  
sluzhby organizatsii tresta Soyuzshakhtosusheniye, Tula.  
(Mine drainage)

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SABITOV, A., tekhn. red.

[Deep-well pump for water drawdown and supply] Glubinnye nasosy  
dlia vodoponizheniia i vodosnabzheniia. Izd.3., perer. i dop.  
Moskva, Gosgortekhzdat, 1962. 241 p. (MIRA 15:7)  
(Pumping machinery)

KHOKHLOVKIN, D.M., inzh.

New submersible pumps with parts made of capron. Gor. zhur.  
no.1:52-54 Ja '62. (MIRA 15:7)  
(Centrifugal pumps--Equipment and supplies)  
(Nylon)

KHOKHLOVKIN, D. M., inzh.

Use of electroosmosis drainage in mining. Gor. zhur. no.11:  
24-25 N '62. (MIRA 15:10)

(Mine drainage—Electric equipment)

KHOKHLOVKIN, D.M., inzh.

Expediency of using the rotary method to drill unwatering  
boreholes. Ger. shur. no.12:55-56 D '62. (MIRA 15:11)  
(Kursk magnetic anomaly—Mine drainage)  
(Boring)

KHOKHLOVKIN, D.M., inzh.

Development of the design of bearing discs for the electric  
drives of 8AP and 8APV sinking pumps. Shakht. stroi. 7 no.8:  
20-21 Ag '63. (MIRA 16:11)

KHOKHLOVKIN, David Mikheylovich; GOLUYAROV, F.A., ed. red.

[New drilling methods and new design filters for mine drainage and artesian wells] Novye sposoby bureniia i novye konstruktzii fil'trov dlia vodoponizhaiushchikh i artezianskikh skvazhin. Moskva, T'Sentr. in-t tekhn. informatsii ugol'noi promyshl., 1962. 31 p.

(MIRA 17:7)

ALEKSANDROVA, N.F.; KHOKHLOVKIN, I.M. (Rostov)

Clinical course and diagnosis of periarteritis nodosa. Klin.  
med. 40 no.5:132-133 '62. (MIRA 15:8)

1. Iz terapevticheskogo otdeleniya (zav. A.Z. Zaydenberg)  
Rostovskoy oblastnoy bol'nitsy (glavnyy vrach M.F. Mokrcusov).  
(PERIARTERITIS NODOSA)

*Khokhlovkin, M.A.*

PROCESSES AND PROPERTIES INDEX

*117*

**Thermochemical investigation of the vulcanization of sodium-bivinyly polymer.** M. A. Khokhlovkin, N. I. Eulbina and V. F. Evstratov. *Trudy Gosudarst. Opyt. Zavoda Sintet. Kautchuka, Litera B. IV. Synthetic Rubber, 1935, 100 D.* The heat effects of vulcanization of Na-bivinyly polymer contg. 1.6-18.4% S were investigated, and the results are tabulated. The heat effect-performance curve indicates that vulcanization of Na-bivinyly polymer involves a series of consecutive processes characteristic of natural rubber. With low S contents endothermal effects prevail; with higher proportions of S the exothermal process makes its appearance, which in turn can be subdivided into 2 stages. A. A. Bochtink

ASO-5LA METALLURGICAL LITERATURE CLASSIFICATION

117 AND 118 ORDERS

PROCESSES AND PROPERTIES INDEX

2

CA

The kinetics of thermal polymerization of butadiene  
 S. V. Lebedev, M. A. Khokhlov, I. I. Kambur and  
 A. P. Bogoyeva *Soviet Kaucuk* 1936, No. 1, 2-4.  
 The thermal polymerization of liquid butadiene at 110°,  
 120°, 140°, 145° and 160° was studied, and the  
 orders of the velocity of the reaction for each temp. were  
 obtained. The energy of activation is 19,000 cal. in the  
 liquid phase and 25,000 cal. in the gaseous phase. It  
 accelerated the velocity of thermal polymerization of  
 monomers the proportion of polymer. The reaction in  
 the liquid phase was homogeneous. A 15 cal.

M. A. KHOKHLOV  
 I. I. KAMBUR  
 A. P. BOGOYEVA

ASD-51A METALLOGICAL LITERATURE CLASSIFICATION

117 AND 118 ORDERS

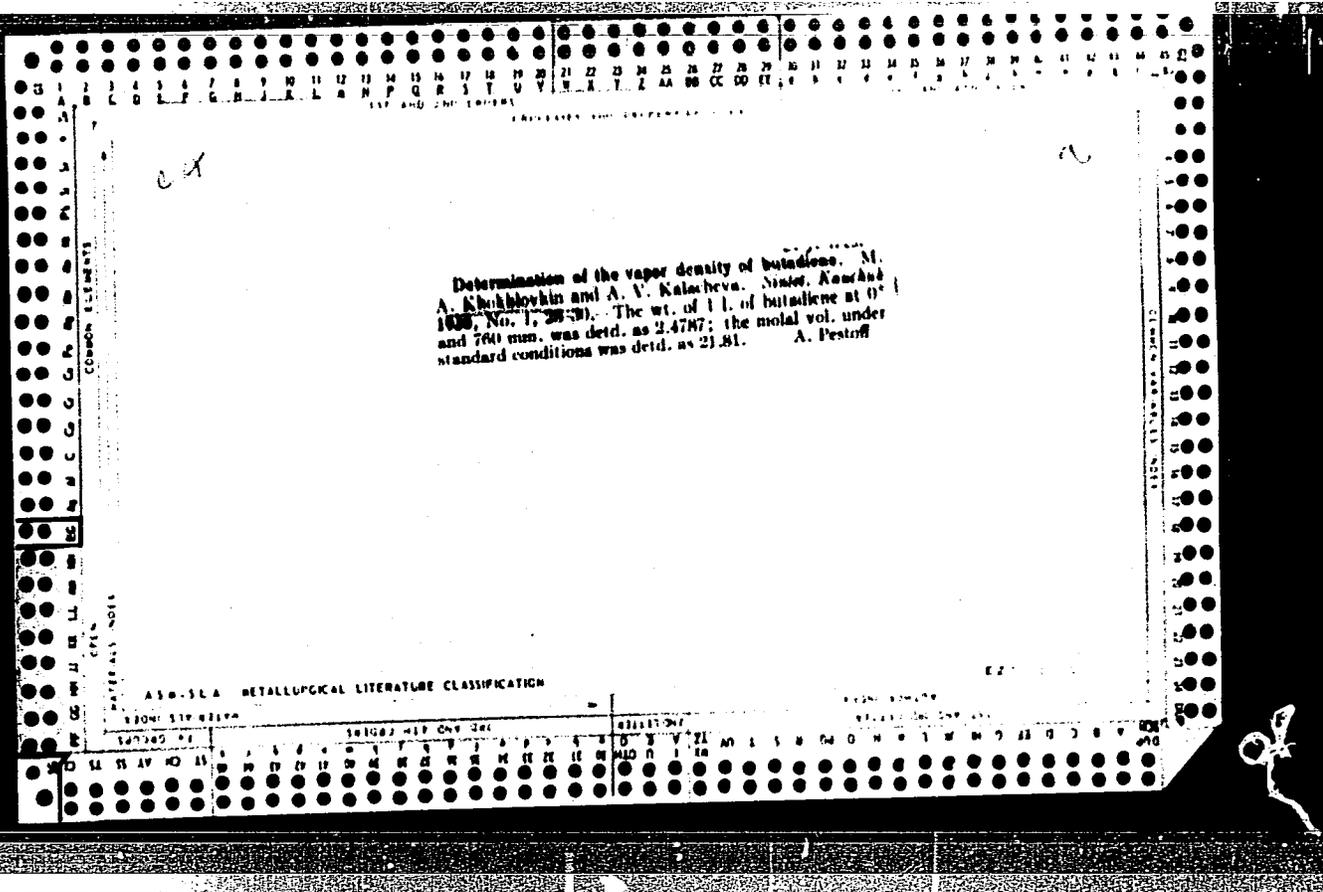
PROCESSES AND PROPERTIES INDEX

2

BT

The specific heat of 2,3-butanediol. M. A. Khokhlovkin and A. V. Kalacheva. *Soviet. Kaucuk* 1956, No. 1, 25-7. - The av. sp. heat of pure and tech. 2,3-butanediol (I) was detd. in the range of 20-140° and the real sp. heat was calcd. from the following equation:  $c = 0.5301 + 0.001046t$  for pure I and  $c = 0.5268 + 0.001563t$  for tech. I, where  $t$  is the temp. For pure I  $c$  at 30° is 0.6000; at 140° it is 0.8311. A. Pestoff

ASB-51-A METALLURGICAL LITERATURE CLASSIFICATION



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1ST AND 2ND ORDERS

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ca

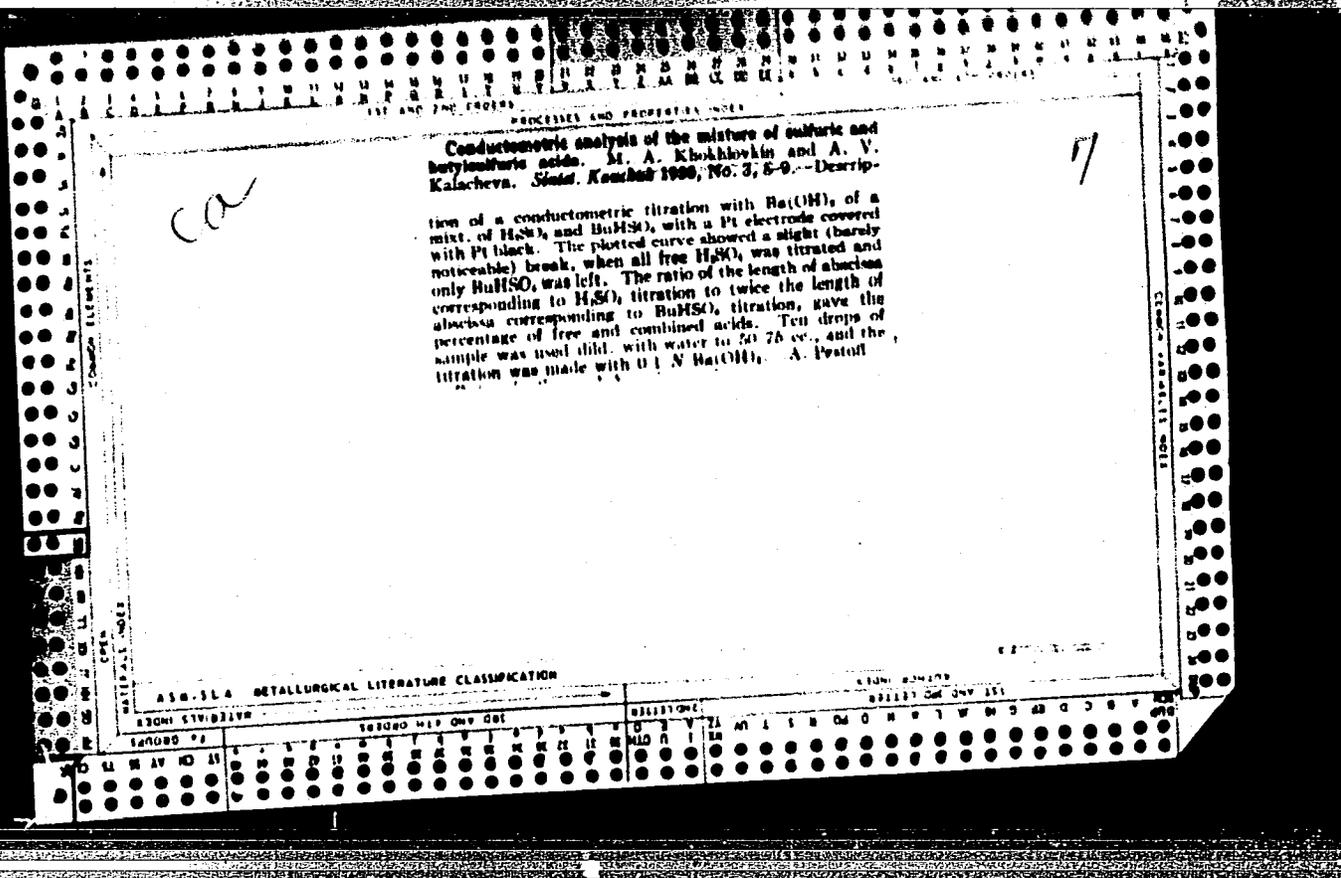
The heat of reaction between pseudobutyric acid and sulfuric acid. M. A. Khokhlovkin, A. V. Kalacheva and M. A. Smirnova. *Sintet. Kachest* 1936, No. 2, 12-14. Special app. was constructed to det. the heat effect of the reaction:  $H_2SO_4 + C_4H_7 = C_4H_7SO_3 + (34.15 \pm 1.7)$  cal. See references. A. Pestoff

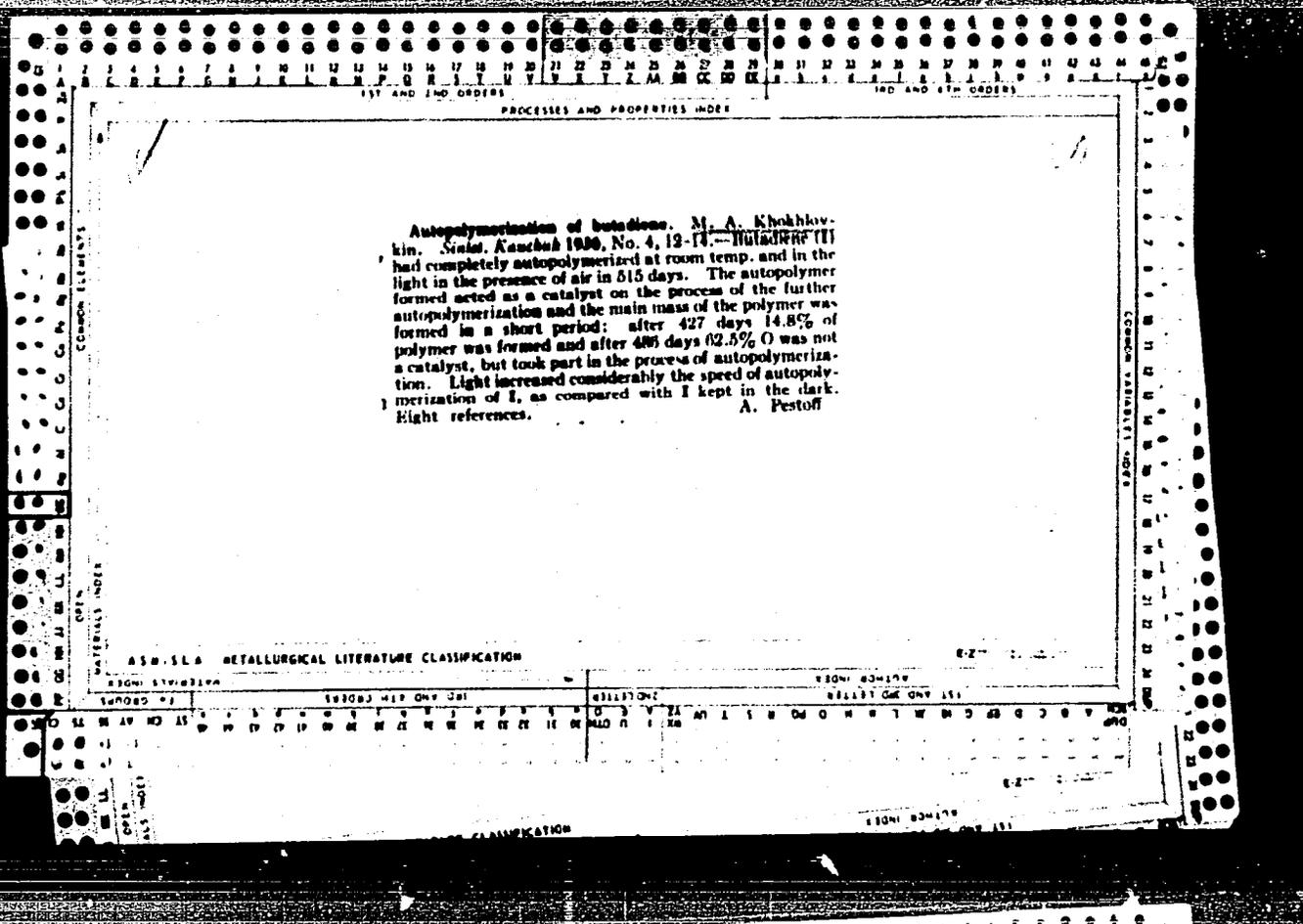
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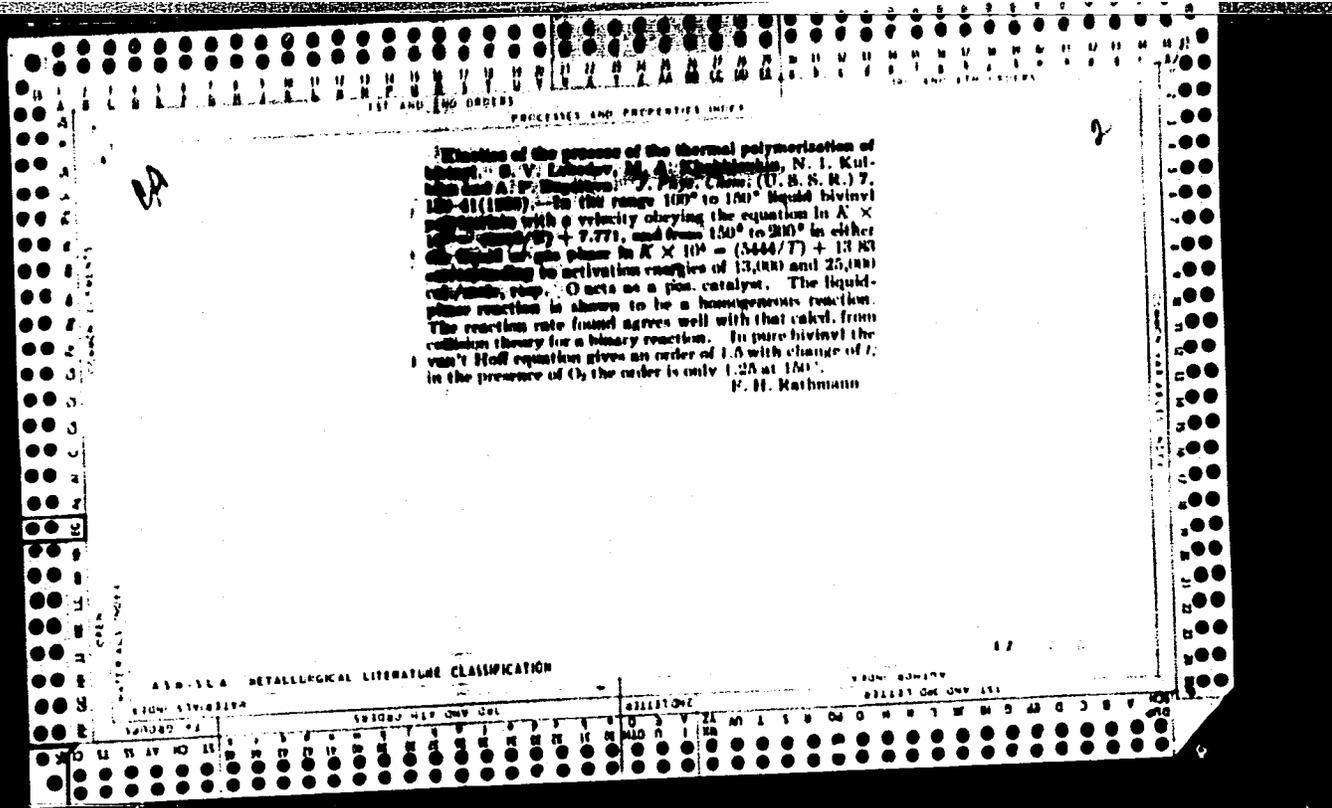
ASAC-SLA METALLURGICAL LITERATURE CLASSIFICATION

GROUPS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100







PROCESSES AND PROPERTIES INDEX

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**Heat of combustion of isoprene and its polymerization products.** *Il. N. V. Lebedev, M. A. Khokhlovkin and A. V. Kalachova. J. Appl. Chem. (U. S. S. R.) 9, 1006-12 (in French 1912) (1956); cf. Trudy Gosdizst. Opyt. Zashch. Stroy. Konechnykh Litsy "B" No. 4 (1955).*

Isoprene was synthesized by dehydration of dimethylacetylenetriethylal in the presence of the MgSO<sub>4</sub> catalyst at 280° and by hydrogenation of the isopropenylacetylene formed (b. pt. 43.0-73.0°, n<sub>D</sub><sup>20</sup> 1.4167, yield 80%) in the presence of a Zn-Cu couple and water. The crude isoprene was converted into isoprene-HCl, which after distn. was reconverted into isoprene by treatment with KOH. It b. 33.3-34°, d<sub>4</sub><sup>20</sup> 0.6900, n<sub>D</sub><sup>20</sup> 1.4227, mol. refraction 25.463, exaltation 1.104, surface tension 16.9 ± 0.1 dynes/cm., and heat of combustion 11,165 cal./g. By heating isoprene in N at 150° for 160 hrs., dimers were formed, which after sepn. from the simultaneously formed polymer, have a heat of combustion of 10,844 cal./g. The above polymer (thermo-polymer) after dissolving in C<sub>6</sub>H<sub>6</sub> (cooled in CO<sub>2</sub>) and pptg. with alc., has a heat of combustion of 10,666 cal./g. The polymerization of isoprene with Na in a N atm. at room temp. for 8 months, yielded a polymer (Na polymer) that has a heat of combustion of 10,765 cal./g. The homological difference per CH<sub>2</sub> group in unsatd. compds. in the heat of combustion is the same as that in the satd. compds., 156 large cal. per mol. Exptl. data are tabulated. Fourteen references.

A. A. Podgoruy

METALLURGICAL LITERATURE CLASSIFICATION

...V R I N G, M. H.

Thermochemical studies of high molecular compounds.  
 M. A. Kholobovkin. *Izvestiya v Oblas'ti Vysokomolekulyarnykh Soedineniy*; Krasnodar: Vysokomolekulyarnykh Soedineniy, Akad. Nauk S.S.S.R. 1949, 271-80. -- Milling of Na butadiene rubber for an extended period leads to an irregular downward trend of the heat of combustion of the substance; natural rubber and also Vistanex undergo a slight initial decline, then remain at a const. level. Vistanex declines 70-1 cal./g. in 1-2 hrs. The heat of combustion of Na butadiene rubber drops linearly during heating to 250° for some 6 hrs., yielding an isosol. product, which is thus probably cyclized with reduced unsatn. Since the exptl. values of the heats of polymerization of many monomers are 10-40 kcal./mole, whereas theoretical predictions give 20-24, an explanation of the difference is important. In the Na-butadiene process, the initial reaction with Na involves about 40 kcal./mole; at 20% polymerization, the heat effect reaches 11 kcal./mole, whereas, at 99.8% polymerization, it reaches 14 kcal./mole. Therefore, it appears that, near the end of polymerization, secondary factors are operative; these are chem. and are connected with utilization of residual unsatn. The degree of disorientation of the polymer chains in the medium and the resulting effects are in accord with the above mentioned results obtained on prolonged milling; the shorter chains are more readily oriented than the long ones. G. M. K.

me

KHOKHLOVKIN, V.A., kand.med.nauk

Problem of obscure forms of rheumatic fever in children.  
Sov.med. 22 no.9:34-36 8'58 (MIUA 11:11)

1. Iz serdeczno-rvmaticeskogo kabineta (sav. V.A. Khokhlovkin)  
Detskoy klinicheskoy bol'nitsy (glavnyy vrach N.P. Yuhno) g.  
Stalino.

(RHEUMATIC FEVER, in inf. & child.  
obscure forms (Rus))

KHOKHLOVKINA, V.A.

Geological condition of the Pokrovshchina site deposits.  
Uch.zap.Mosk.un. no.158:145-150 '52. (MLPA 8:8)  
(Pushkari--Geology, Stratigraphic)

ZHUR, Il'ya Ivanovich, zhurnalist; KHOKHLUSHIN, Viktor Afanas'yevich;  
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[Plant changes its production program] Zavod meniaet profil'.  
Moskva, Mosk. rabochii, 1963. 82 p. (MIRA 16:12)

1. Direktor moskovskogo zavoda "Kalibr" (for Khokhlushin).  
(Moscow--Instrument industry)

GREBEN', L.K., akademik; BAYDUGANOVA, Ye.P., nauchnyy sotr.; SAVCHENKO, P.Ye., kand. biol. nauk; GREBEN', Ye.K., kand. sel'khoz. nauk; KRYLOVA, L.F., nauchn. sotr.; SIDOROVA, L.M., nauchn. sotr.; SOROKINA, V.I., nauchn. sotr.; BAGMET, M.I.; LAZORENKO, Ye.L.; KHOKHLYUK, A.G.; PASHKEVICH, M.K.; BRYZHNIK, K.A.; LUZHKOVA, M.A., kand. sel'khoz. nauk; BALASHOV, N.T., kand. sel'khoz. nauk; ZHELIKHOVSKIY, V.I., redaktor; POTOTSKAYA, L.A., tekhn. red.

[Ukrainian White Steppe swine] Ukrainskaia stepnaia belaiia poroda svinei. Pod obshchei red. L.K.Grebenia. Kiev, Gos-sel'khozizdat USSR, 1962. 252 p. (MIRA 16:5)

1. Ukrainskiy nauchno-issledovatel'skiy institut zhiivotnovodstva stepnykh rayonov im. M.F.Ivanova "Askaniya-Nova."
2. AN Ukr.SSR i Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. V.I.Lenina (for L.K.Greben'). 3. Ukrainskiy nauchno-issledovatel'skiy institut zhiivotnovodstva stepnykh rayonov im. M.F.Ivanova "Askaniya-Nova" (for Bayduganova).
4. Melitopol'skaya gosudarstvennaya plemennaya stantsiya (for Bagmet, Lazorenko, Khokhlyuk). 5. Spetsialist sovkhosa "Komsomolets", Stavropol'skiy kray (for Bryzhnik).  
(Ukraine--Swine breeding)

ISAKOV, A.I., kand. tekhn. nauk; KHOKHLYUK, S.S.; DEREVYANKO, N.I.

Automatic regulation and control of the conditions of panel  
veneering. Bum. i der. prom. no.3:3-8 JI-S '65. (MIRA 18:9)

YURCHIK, I. [Juresik, Istvan] (Pecs, Jozsef u. 19); UPOR, E. [Upor, Endre] (Pecs, Hajnocy u. 25/A); KHOKHMAN, E. [Hohmann, Jenó] (Pecs, Jokai u. 5); YUKHAS, Sh. [Juhasz, Sandor] (Pecs, Uttoro u. 60)

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1. Zamestitel' nachal'nika otдела organizatsii truda Kuznetskogo metallurgicheskogo kombinata (for Sosul'nikov). 2. Nachal'nik otдела organizatsii truda gornogo upravleniya Kuznetskogo metallurgicheskogo kombinata (for Stafeyev). 3. Nachal'nik otдела truda i sarabotnoy platy Upravleniya khimicheskoy promyshlennosti Moskovskogo oblastnogo sovnarkhosa (for Sitnikov). 4. Starshiy inzhener otдела truda i sarabotnoy platy Upravleniya khimicheskoy promyshlennosti Moskovskogo oblastnogo sovnarkhosa (for Levin). 5. Direktor Moskovskogo instrumental'nogo zavoda "Kalibr" (for Khokhlushin). 6. Nachal'nik otдела truda i sarabotnoy platy Moskovskogo instrumental'nogo zavoda "Kalibr" (for Karshenbaum).

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KHOKHOL, M.F. [Khokhol, MF.], dotsent

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